A night sky with the Milky Way galaxy and a comet streaking across the dark landscape.

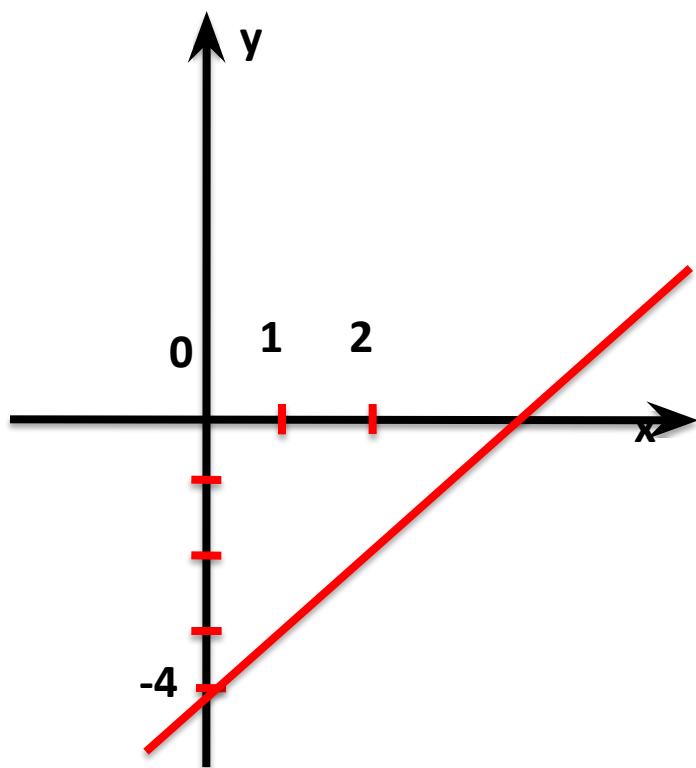
Линейная функция,
её график, свойства.

A night sky with the Milky Way galaxy visible as a dense band of stars and dust. A bright comet streaks across the lower right portion of the sky. The foreground shows a dark, silhouetted landscape, possibly a mountain range or a valley.

Проверка сплоченности КОСМОНАВТОВ

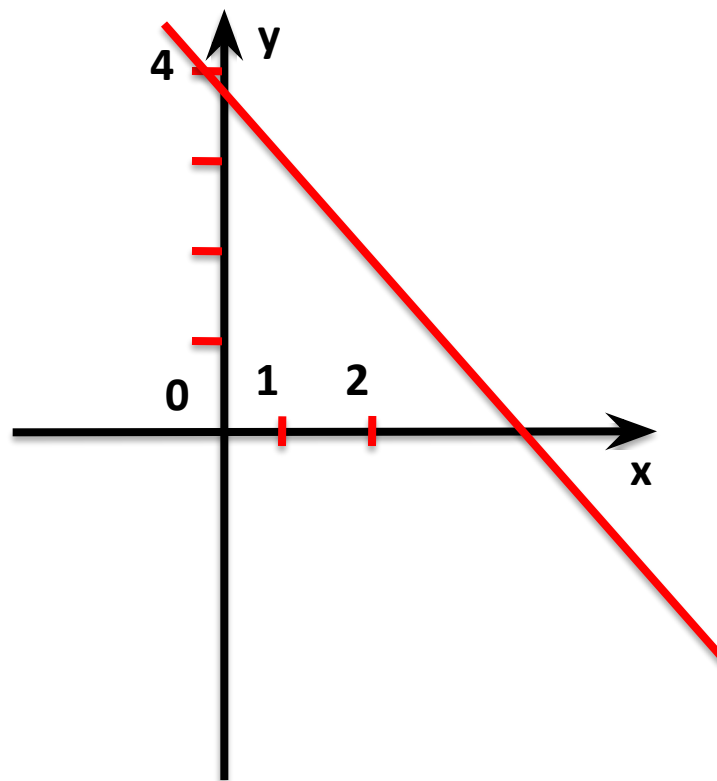
$$y=x-4$$

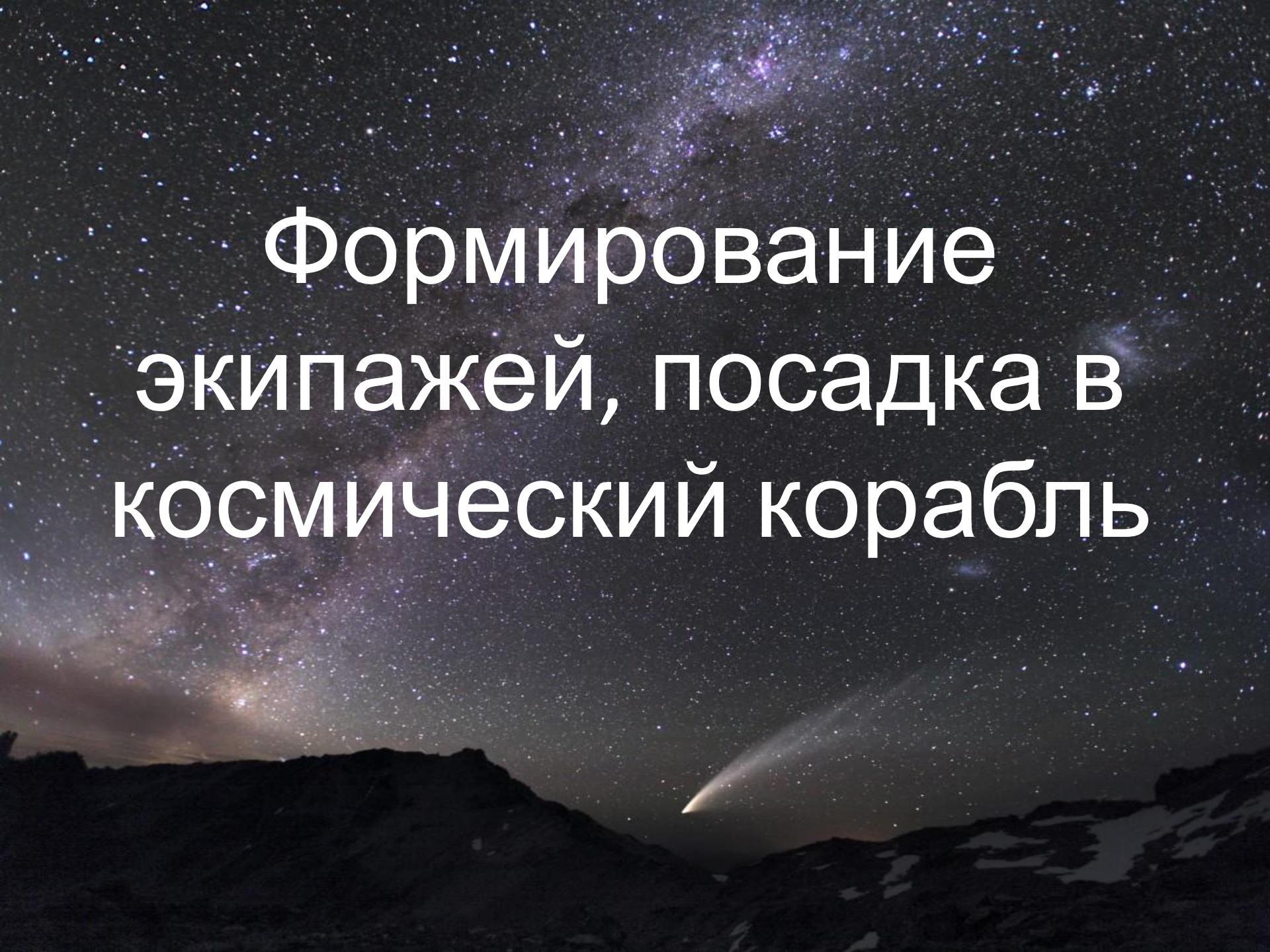
I вариант



$$y=-x+4$$

II вариант

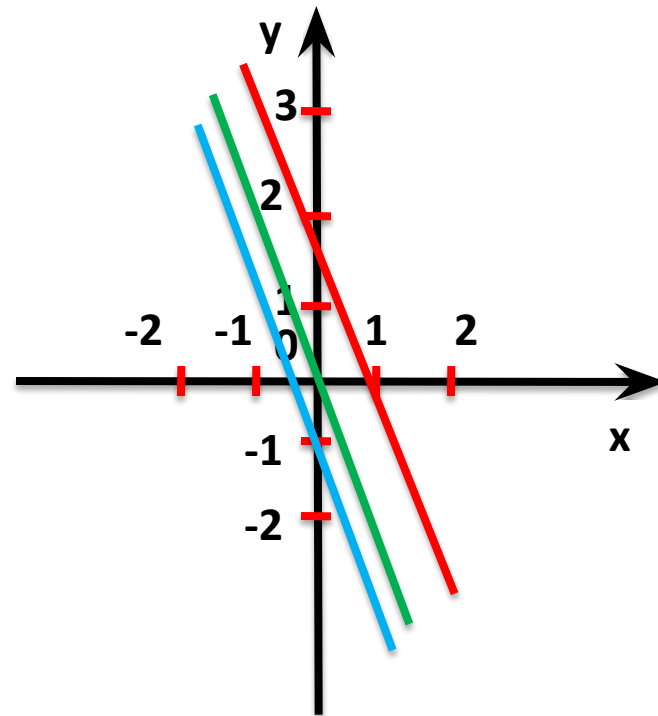
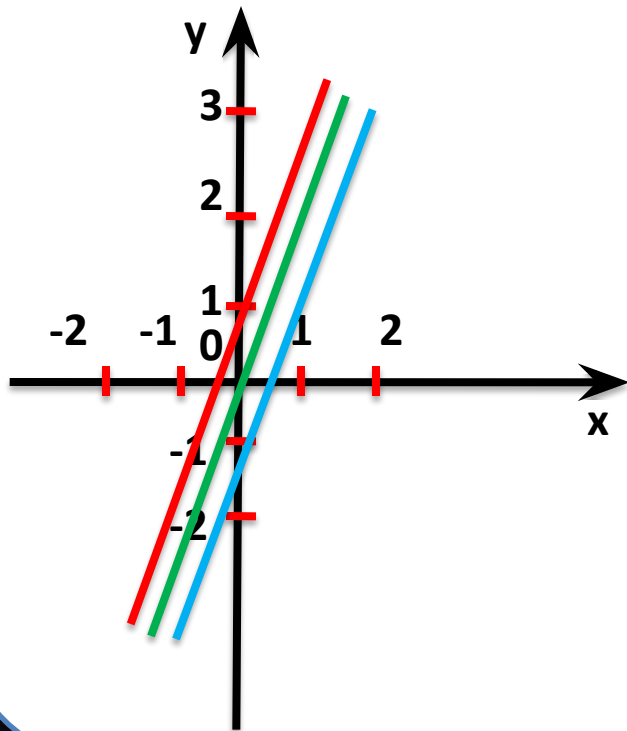


The background of the image is a night sky filled with stars and the Milky Way galaxy. A bright comet streaks across the lower right portion of the sky. The foreground shows a dark, silhouetted landscape, possibly a mountain range or a valley, under a dark sky.

Формирование экипажей, посадка в космический корабль

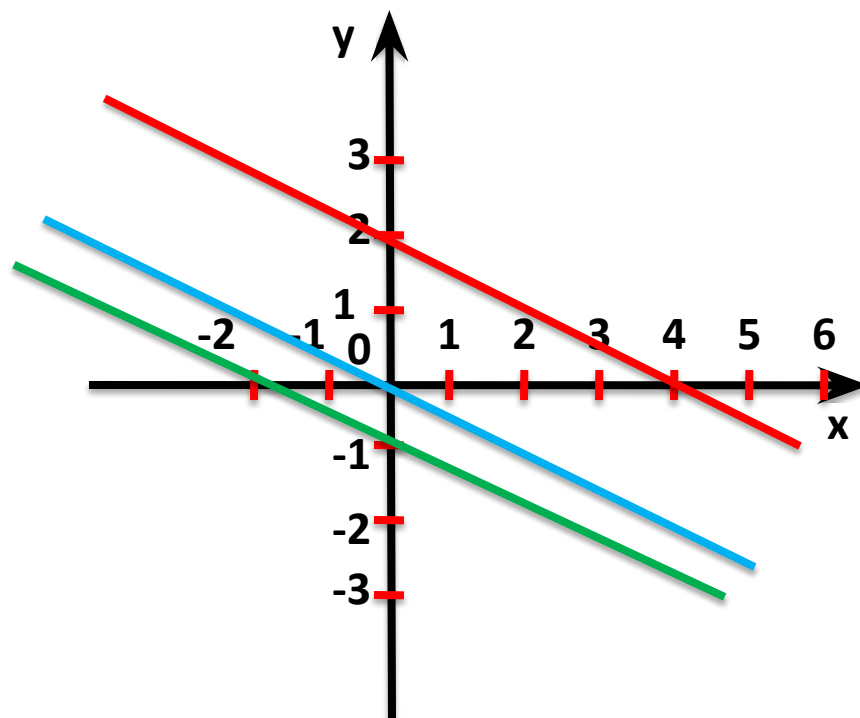
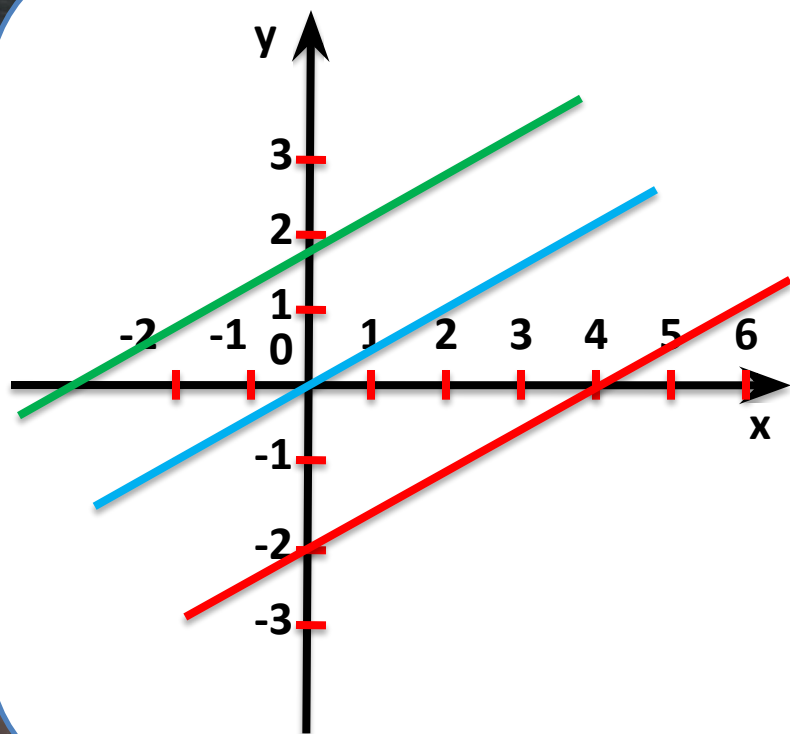
$$y=2x \quad y=2x+1$$
$$y=2x-1$$

$$y=-2x+1 \quad y=-2x-1$$
$$y=-2x$$



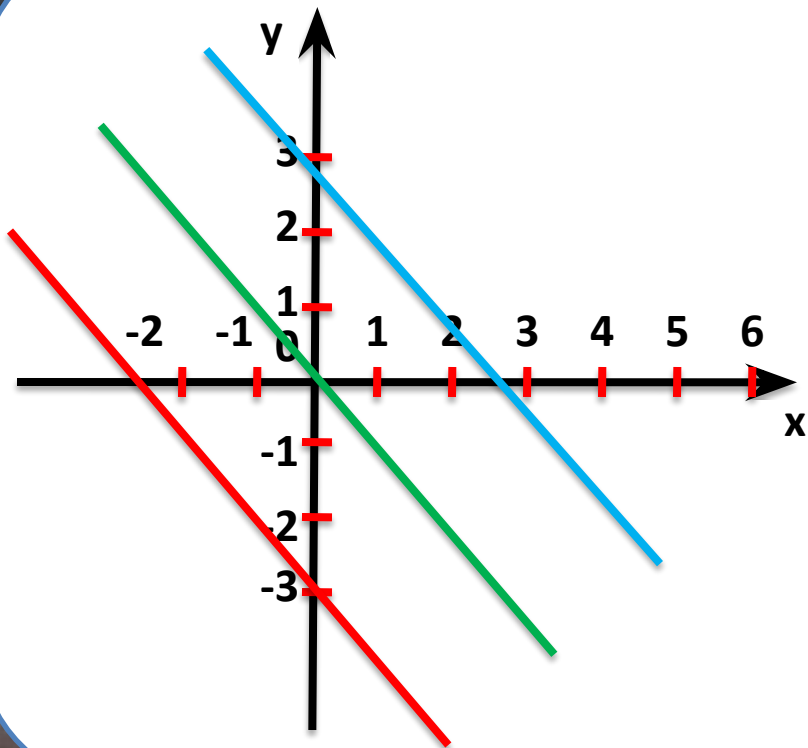
$$y=0,5x+2 \quad y=0,5x-2$$
$$y=0,5x$$

$$y=-0,5x+2 \quad y=-0,5x$$
$$y=-0,5x-2$$



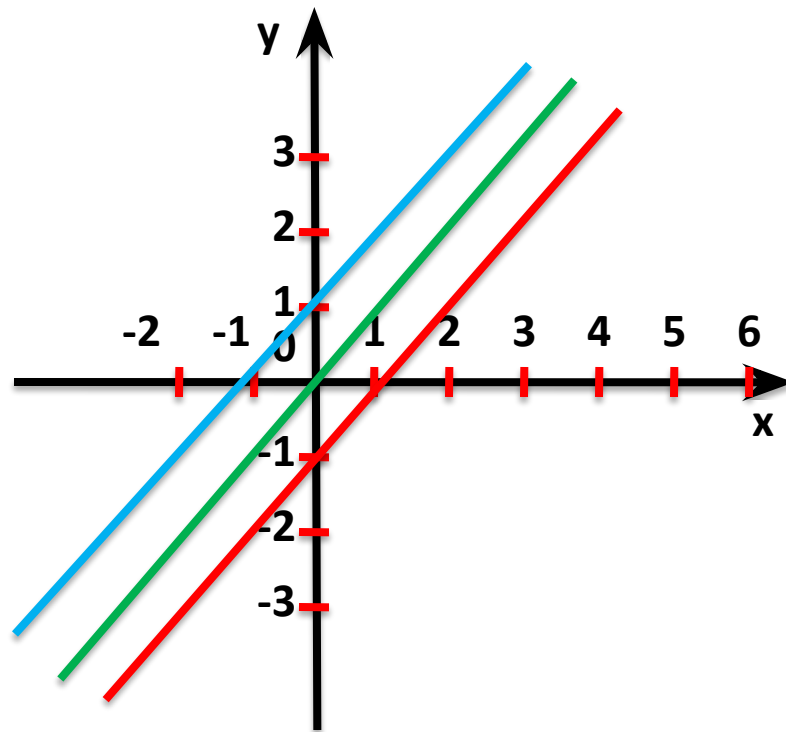
$$y = -x \quad y = -x + 3$$

$$y = -x - 3$$



$$y = x + 1 \quad y = x - 1$$

$$y = x$$



Полет в космос

A night sky photograph featuring the Milky Way galaxy stretching across the upper half of the frame. The stars are densely packed, with some appearing as bright blue or purple points. In the lower right, a bright comet streaks across the sky, leaving a long, glowing tail. The foreground is a dark, silhouetted landscape, possibly a mountain range or a valley, with some snow patches visible on the right side.

Найти уравнения линейных функций

$$y = -x + 0,2; \quad y = 12,4x - 115,7; \quad y = -9x - 118;$$

$$y = 5,04x;$$

$$y = -5,04x; \quad y = 126,35 + 8,75x; \quad y = x - 0,2;$$

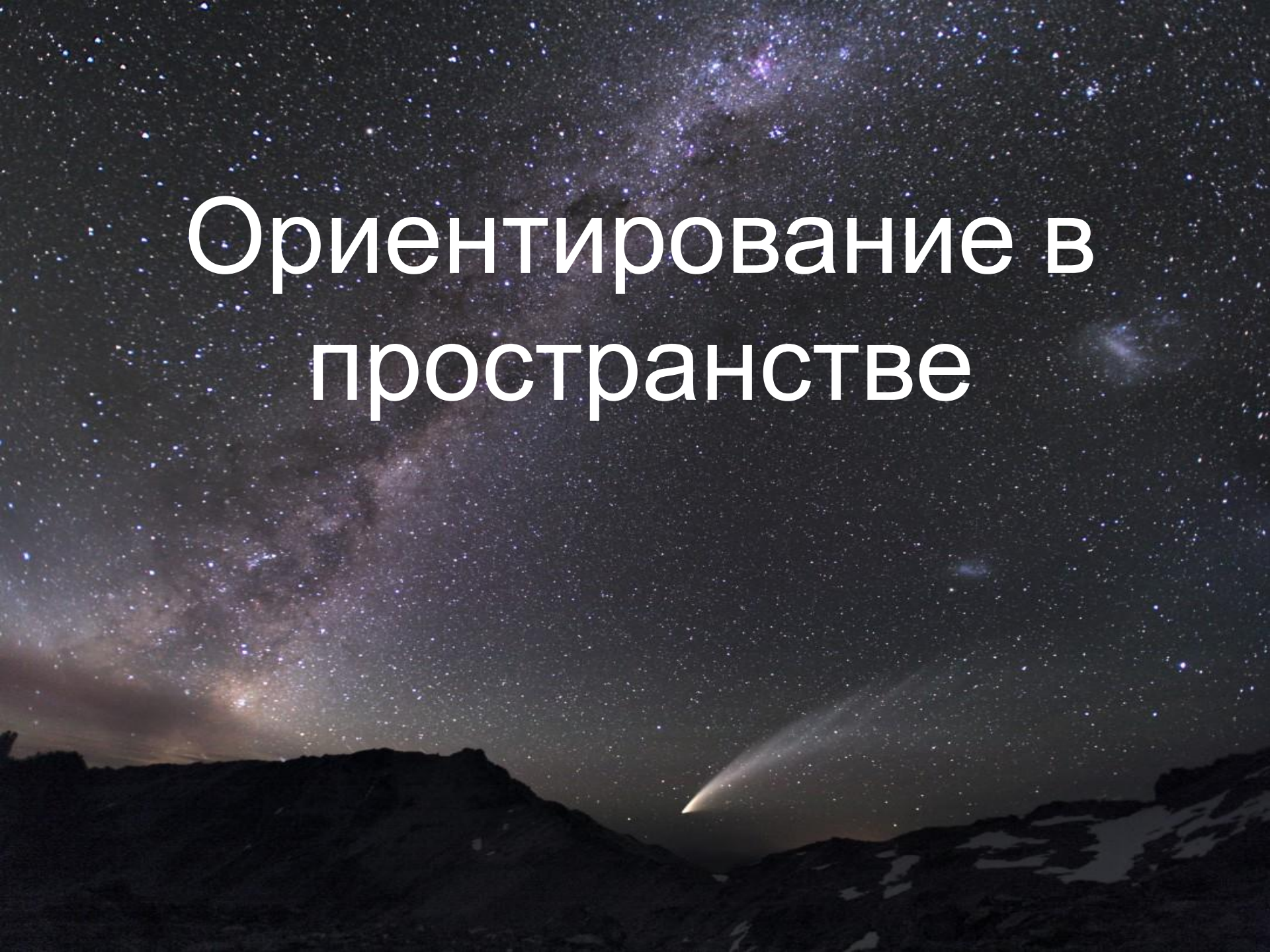
$$y = -x : 8;$$

$$y = -0,0005x; \quad y = 133,133133x; \quad y = -10,001x;$$

$$y = 2 : x;$$

$$y = -0,0049; \quad y = 62,4.$$

Ориентирование в пространстве

A night sky photograph featuring the Milky Way galaxy. The galaxy's core is visible as a bright, dense band of stars and dust, stretching diagonally across the frame. The foreground shows a dark, silhouetted landscape with a comet streaking across the sky, leaving a long, glowing tail.

Полет в космос

A night sky photograph featuring the Milky Way galaxy. The galaxy's bright band of stars and dust stretches diagonally from the bottom left towards the top right. In the lower right quadrant, a bright comet streaks across the sky, leaving a long, glowing tail. The foreground is a dark, silhouetted landscape, possibly a mountain range or a valley, with some snow patches visible on the right side.

1 экипаж

$(0;-1); k>0;$

I, III –

четверть

;

4 ^{k=3}экипаж

$(0;1); k<0;$

II, IV –

четверть;

$k=-0,5.$

2 экипаж

$(0;-1); k<0;$

II, IV –

четверть;

$k=-3.$

5 экипаж

$(0;2); k>0;$

I, III –

четверть;

$k=2.$

3 экипаж

$(0;1); k<0;$

II, IV –

четверть;

$k=-2.$

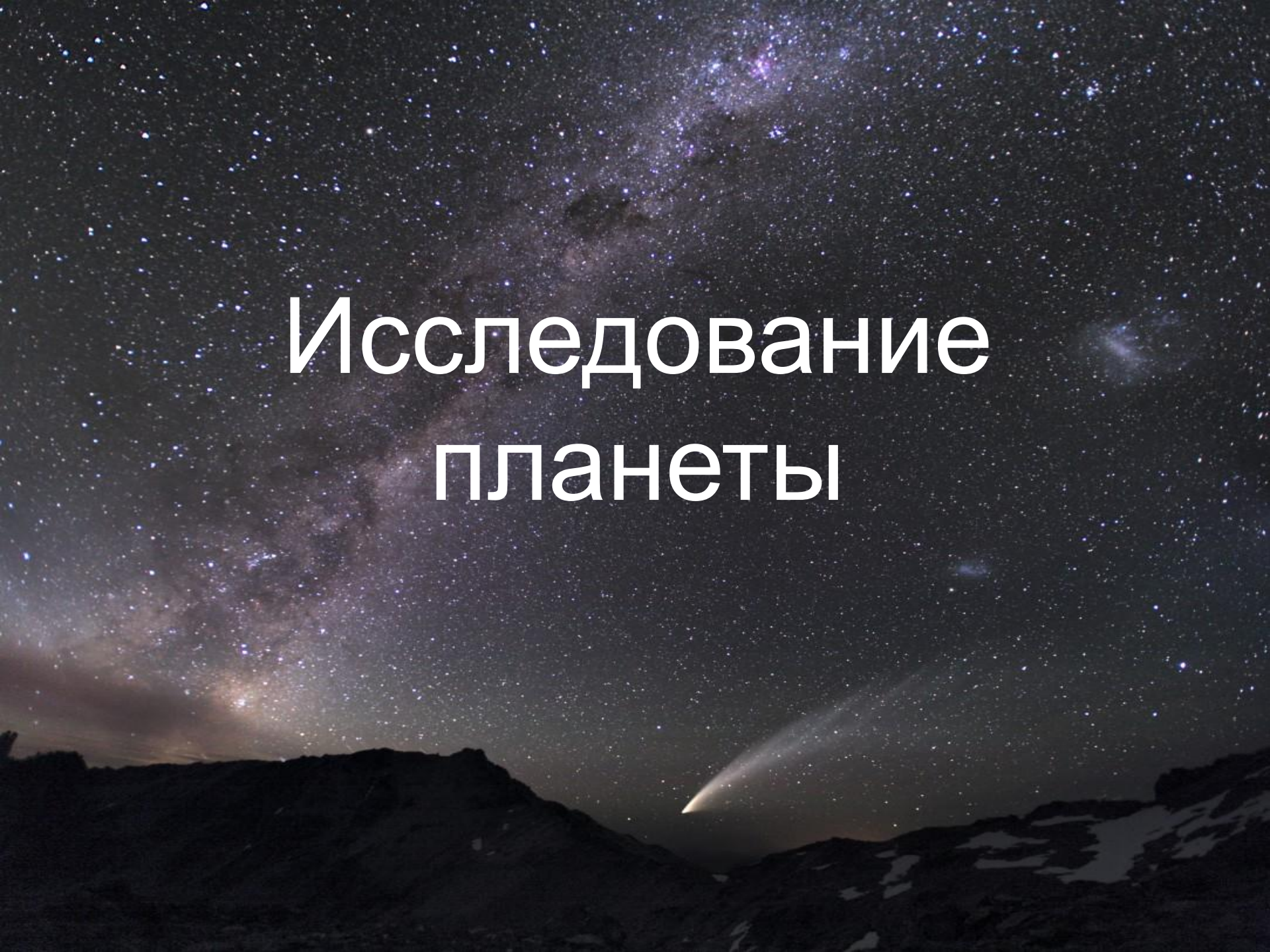
6 экипаж

$(0;-2); k>0;$

I, III –

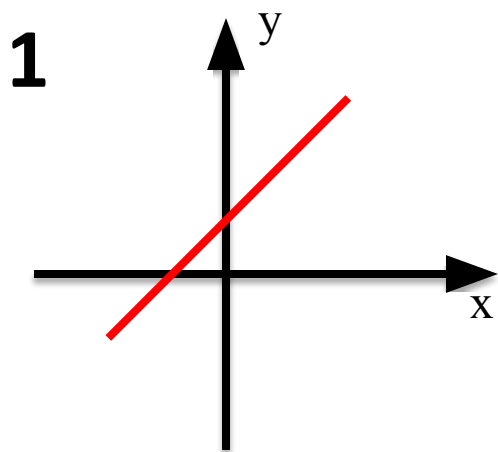
четверть;

$k=2.$

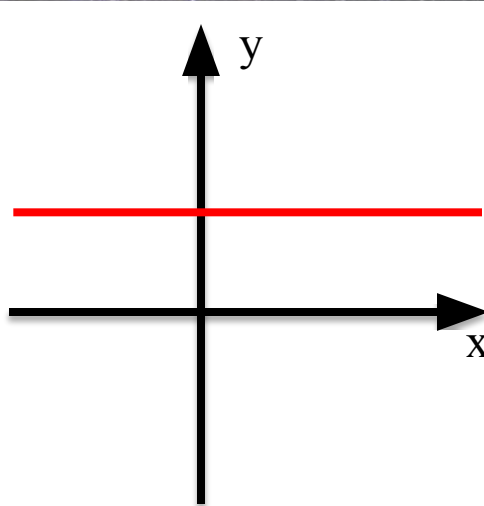
A night sky photograph featuring the Milky Way galaxy arching across the upper portion of the frame. The stars are densely packed, with some appearing as bright blue or purple points. In the lower right, a bright comet streaks across the sky, leaving a long, glowing tail. The foreground shows the dark silhouette of a mountain range or rugged terrain under a starry sky.

Исследование планеты

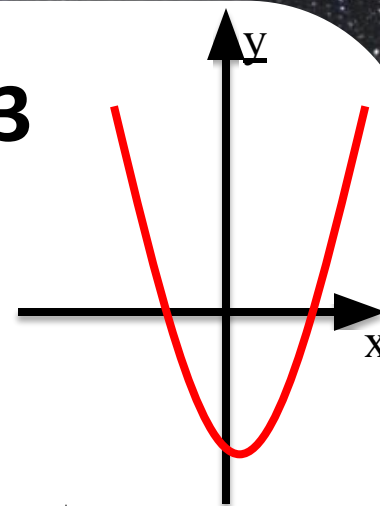
На каком рисунке изображён график линейной функции $y=kx$? Ответ объяснить.



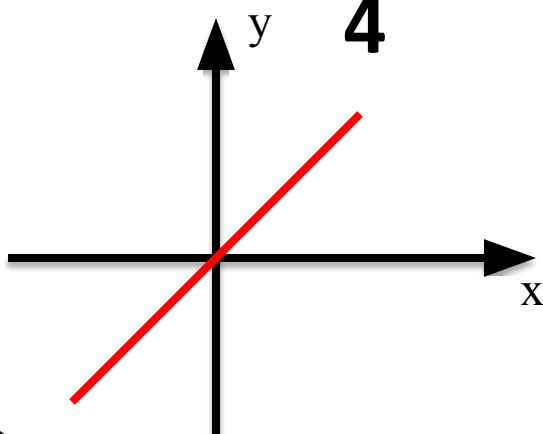
2



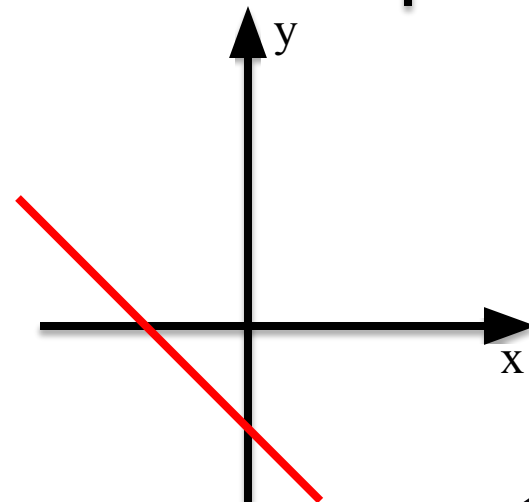
3



4

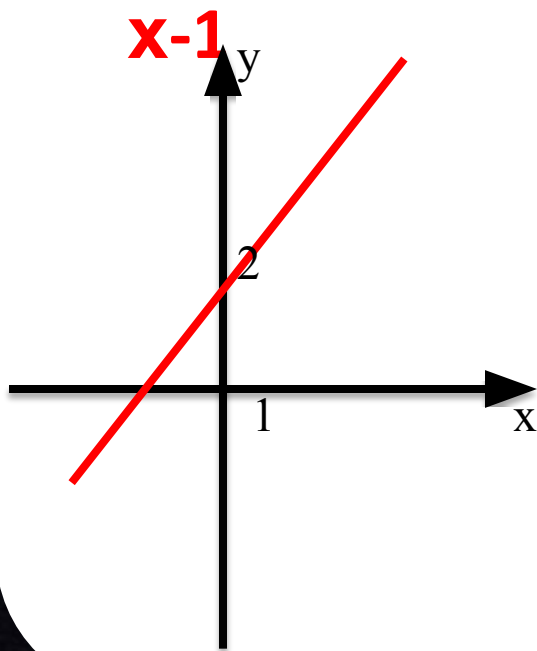


5

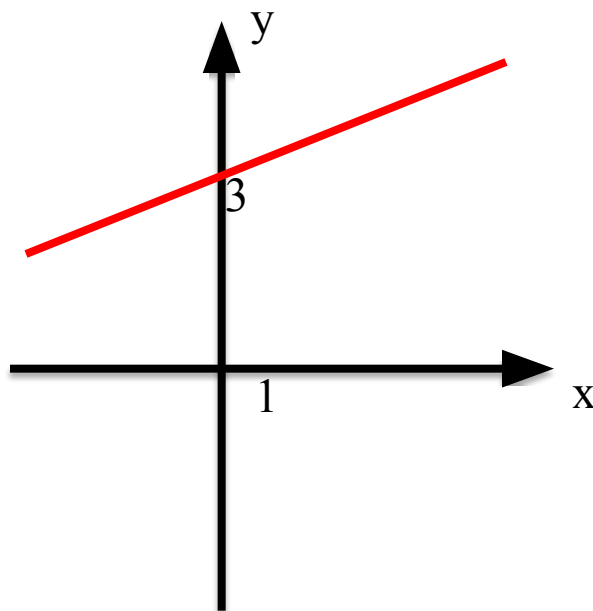


Ученик допустил ошибку при построении графика функции. На каком рисунке?

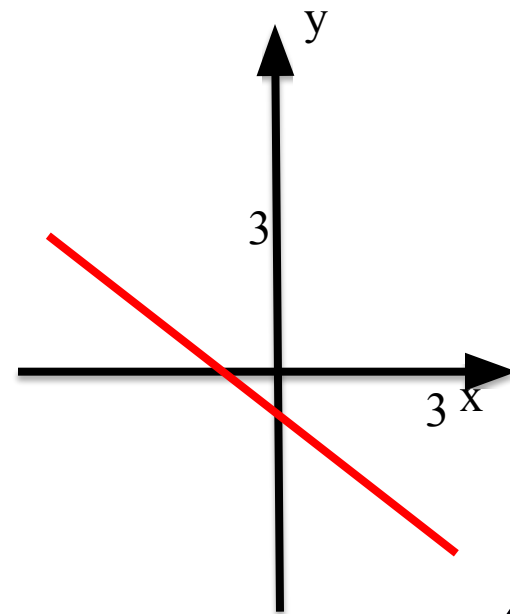
1. $y=x+2$



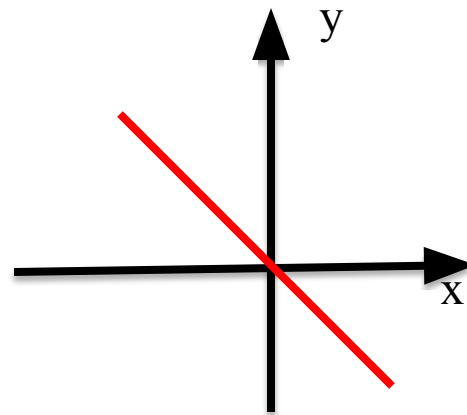
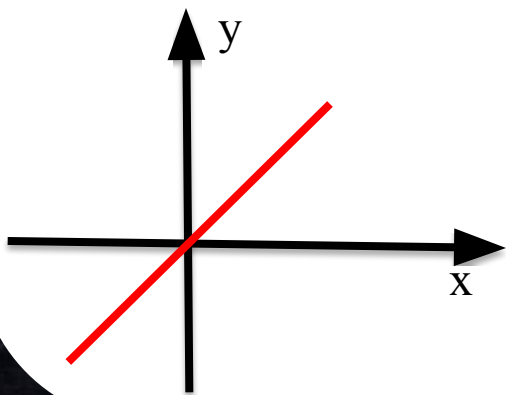
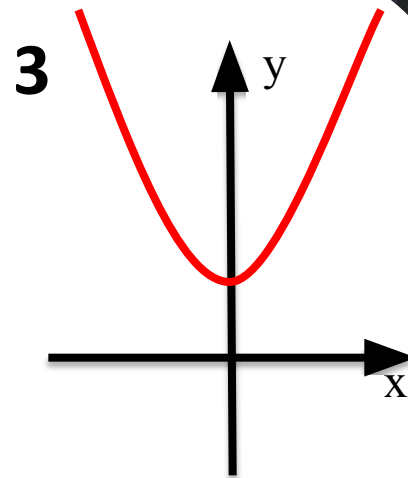
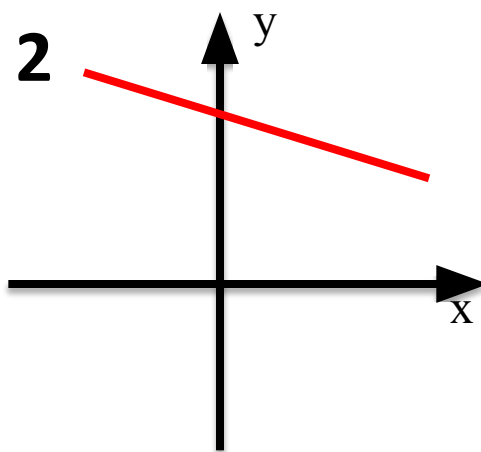
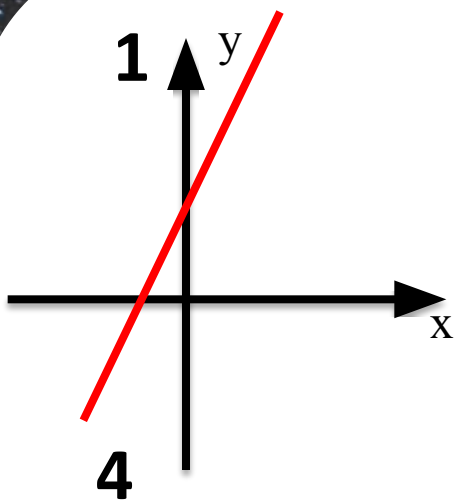
2. $y=1,5x$



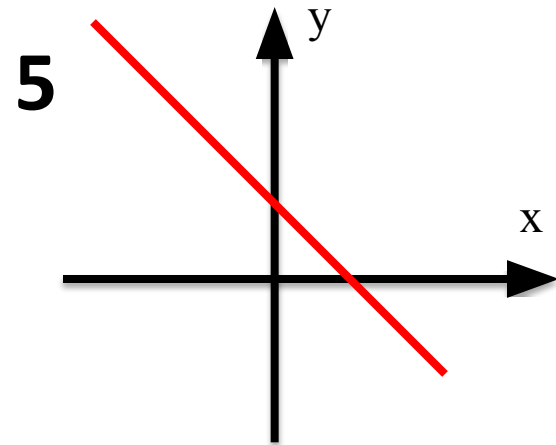
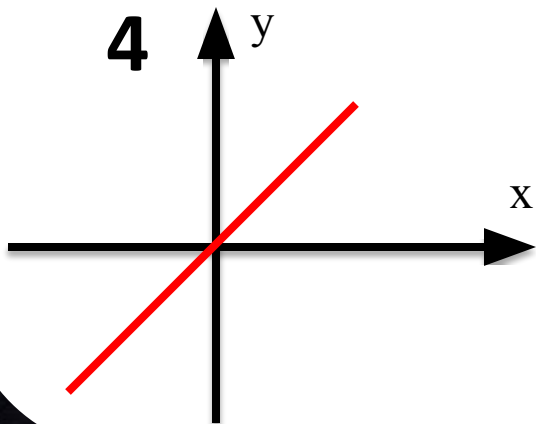
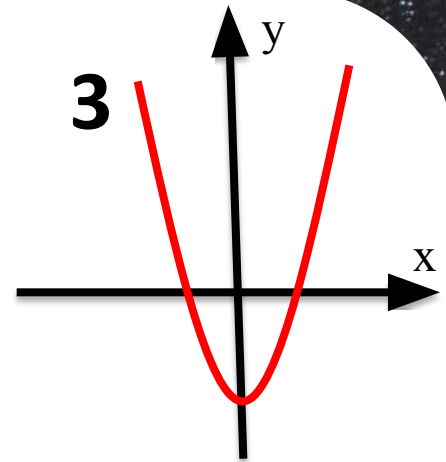
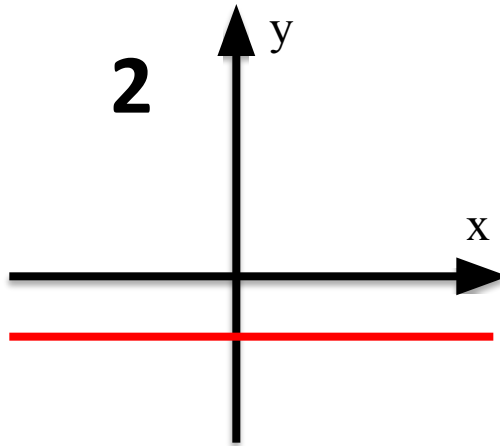
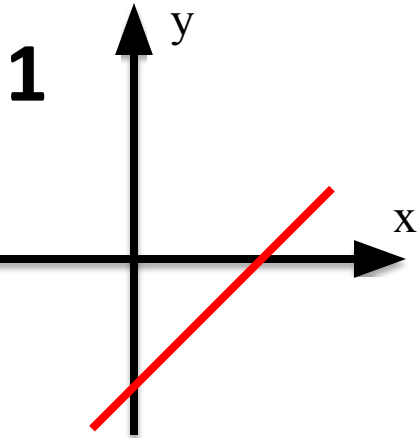
3. $y=-$

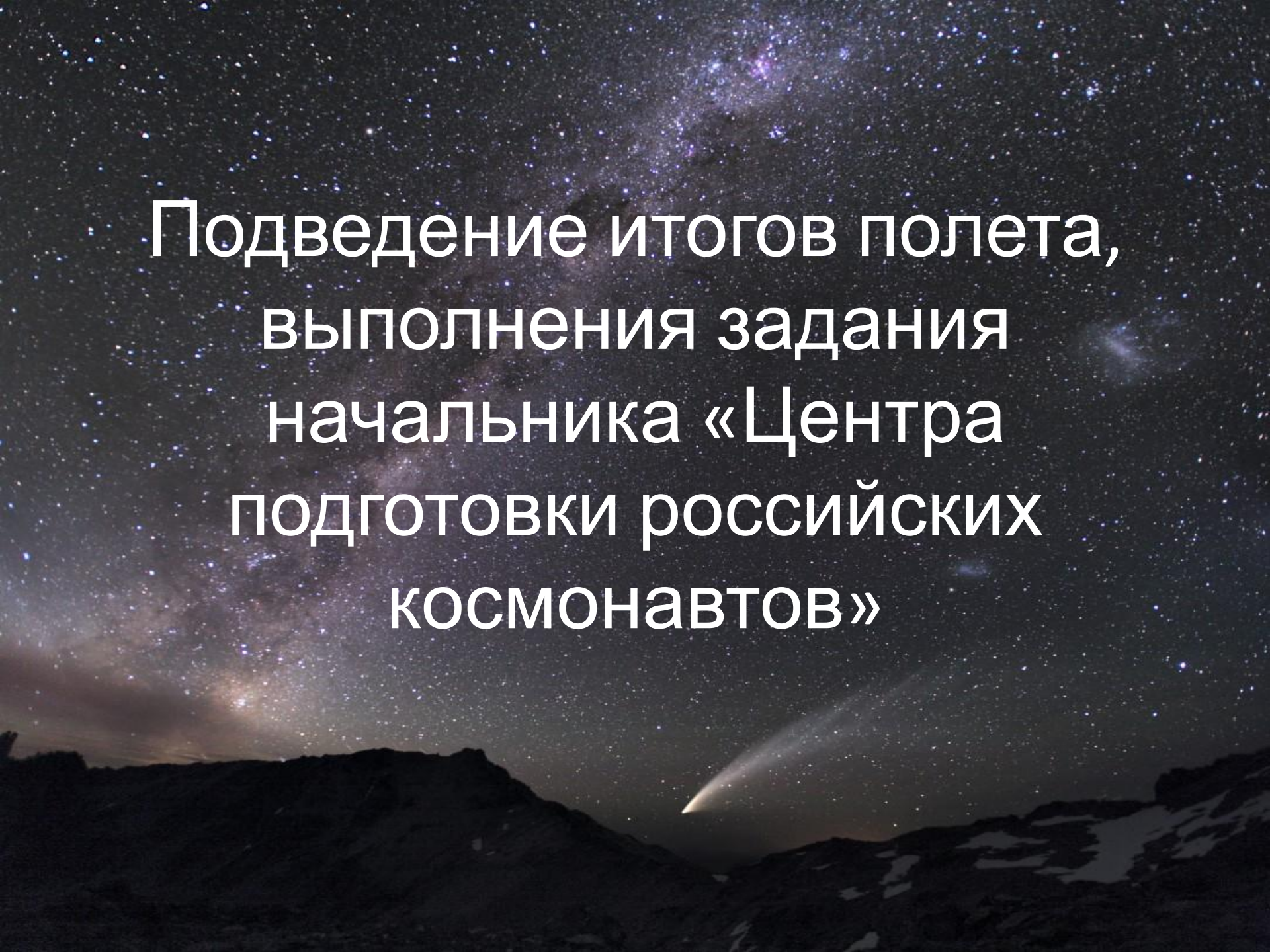


На каком рисунке коэффициент k отрицателен?



На каком рисунке свободный член b в уравнении линейной функции отрицателен?





Подведение итогов полета,
выполнения задания
начальника «Центра
подготовки российских
космонавтов»

Спасибо за урок

!!!

Использованная литература

1. Алимов Ш.А. и др. Алгебра: учебник для 7 класса общеобразовательных учреждений – М.: Просвещение, 2006.
2. Звавич Л.И. и др. Дидактические материалы по алгебре для 7 класса - М.: Просвещение, 2006.
3. Алгебра 7 класс, под редакцией Макарычев Ю.Н. и др., Просвещение, 2006

Интернет ресурсы

www.symbolsbook.ru/Article.aspx%...id%3D222